Claims

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A method for acquiring digital x ray images, said method comprising:

identifying scan parameters designating slices of interest from a patient

anatomy;

scanning the patient in a first direction utilizing a servo-tomo function based on said scan parameters to obtain a first x-ray image; and scanning the patient in a second direction utilizing the servo-tomo function based on said scan parameters to obtain a second x-ray image.

[c2] The method of claim 1, wherein the scan parameters include at least one of:

a focal plane of interest;

a sweep angle;

a focal plane thickness; and

an exposure time.

[c3]

The method of claim 1, further comprising calculating first and second

preparation positions located on opposite ends of a scan range over which first

and second scans of the patient are acquired.

[c4]

The method of claim 1, further comprising:

initiating said scanning in said first direction beginning at a preparation

position located at one end of a scan range; and

initiating said scanning in said second direction beginning at a preparation

position located at an opposite end of said scan range.

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The method of claim 1, further comprising calculating detector and x-ray tube travel distances and sweep velocities based on said scan parameters.

The method of claim 1, further comprising:

after scanning in said first direction, displaying said first x-ray image; and after said scanning in said second direction, displaying said second x-ray image, wherein said first and second images are co-displayed in a multi-image

format.

[c7]

The method of claim 1, further ϕ omprising:

	eld	saving the image in an image storage device; and
00,	62	displaying the image on a multi-image format display.
	[c8]	The method of claim 1 further comprising loading precalculated stored x-ray tube angulation and defector and x-ray tube velocity and travel distances before
		each acquisition.
	[c9]	The method of claim 1, further comprising modifying said scan parameters
		before scanning a next x-ray image.
	[c10]	10.A method for displaying digital x-ray images in a multi-image format, said method comprising:
	Rai	identifying scan parameters designating multiple slices of interest from a patient anatomy;
		acquiring a series of images corresponding to said multiple slices of interest;
		displaying images simultaneously as each of said series of images is acquired;
1.1 1.1		and
		after acquisition and simultaneous display of each image in said series of
		images, halting said acquiring step until reinitiated by an operator.
	[c11]	The method of claim 10, wherein said identifying step designates all scan
		parameters needed for acquisition of said series of images before beginning
T C		said acquiring step.
	[c12]	The method of claim 10, further comprising after each acquisition, prompting
		the operator to change previously identified scan parameters designating a slice
	Im	of interest not yet acquired.
	[c13]	The method of claim 10, further comprising redefining previously identified
		scan parameters designating a slice of interest not yet acquired after each
		acquisition.
-	[c14]	

The method of claim 10, wherein the scan parameters include at least one of:

a focal plane of interest;

a sweep angle;



[c17]

[c18]

[c19]

[c20]

[c21]

a focal plane thickness; and an exposure time.

The method of claim 10, wherein the acquiring step further comprises: scanning a patient in a first direction; and scanning said patient in a direction opposite to said first direction.

[c16] The method of claim 10, wherein the acquiring step further comprises calculating first and second preparation positions located on opposite ends of a scan range over which said series of images of the patient are carried out.

The method of claim 10, further comprising loading precalculated stored detector and x-ray tube velocity and travel distances before each acquisition.

The method of claim 10, further comprising loading a preparation position after each said acquisition, wherein said preparation position is located at the opposite end of a scan range as a location of a previous preparation position.

The method of claim 10, wherein said images are acquired utilizing a servotomo function.

The method of claim 10, further comprising calculating detector and x-ray tube travel distances and sweep velocities based on said scan parameters.

The method of claim 10, further comprising calculating x-ray tube angulation based on said scan parameters and said x-ray tube travel distance.

